

(57) Abstract

The invention relates to an integrated structure of a radio-frequency front end of a communications apparatus. The antenna of the communications apparatus is constructed on a printed circuit board. To this antenna board (310), on its ground plane side, a second circuit board (321) is attached by means of a rigid protective frame (410), which second circuit board includes the other parts of the radio-frequency front end. Between the parts impedance levels are used that are appropriate from the electrical operation perspective. All said parts together form an integrated component (400) to be located inside the housing of the communications apparatus. The advantage of the invention is that it requires a smaller number of components needed for matching between the RF parts, and makes possible a greater sensitivity of the receiver as well as a better transmitter efficiency than prior art structures.

Fig. 4

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